

**These are the Draft Plans of Emission Reduction Strategies for the Pee Dee Region submitted for the
December 10, 2003 Early Action Compact Milestone.**

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List of Emission Reduction Strategies Under Consideration

Chesterfield County

According to the latest 8-hour ozone monitoring data, Chesterfield County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Chesterfield County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Chesterfield County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Air Quality Contact	One person will be identified as the Air Quality Contact. At a minimum, this contact will be responsible for ozone education/outreach and dissemination of ozone forecast.	<i>Not available</i>	March 2003	County wide
Support state-wide efforts	Chesterfield County will support the efforts of SC DHEC regarding state-wide emission reduction strategies.	Not available		County wide

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Darlington County

Based on stakeholder consultation and taking into consideration resource and political constraints, the following control measures under consideration can be reasonably implemented. It is anticipated these measures under consideration will assist Darlington County in achieving and/or maintaining the 8-hour ozone standard by 2007 and beyond.

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Ozone Action Coordinator	A county staff person responsible for dissemination of ozone forecasts	Not available	March 5, 2003	County wide
County Ozone Committee	County Department Heads and the Ozone Action Coor. Are developing for implementation, a countywide Ozone Reduction Plan. The plan will be made available to local business and industry for possible adoption for their programs. Plan preparations will continue thru out the year in preparation for the up coming 2004 season.	Not available	April 15, 2003	County wide
Use of Bio-Diesel/ Alternative Fuels	Convert our diesel fleet to Bio-Diesel and low sulfur fuels.	<p>Current data shows we can expect a 20% decrease in emissions by using this product. We estimate by last years usage we will use 123,272 gallons of fuel in the up coming budget year.</p> <p>The alternative fuel has been in use for the last six months with no harmful effects to the vehicles. Darlington County will continue the use of the product.</p>	<p>July 1, 2003</p> <p>December 5, 2003</p>	County wide
Reduction of Idling or No-Idle Policy for county vehicles	<p>Department Heads will develop and implement interdepartmental plans to reduce or eliminate idling time on vehicle and maintenance equipment.</p> <p>The county departments are in the process of writing the policies at this time. The plan should be ready for the 2004 ozone season.</p>	Not available	<p>July 1, 2003</p> <p>December 5, 2003</p>	County wide
Stricter controls of Illegal/Unauthorized outdoor burning.	<p>Darlington County's Code Enforcement, Fire District, Emergency Services and Sheriff's Department will work in combination with State Agencies to develop this action.</p> <p>Information collected on this issue will be forwarded to Darlington County Council for consideration involving this issue.</p>	Not available	<p>July 1, 2003</p> <p>December 5, 2003</p>	County wide
Fleet Replacement	Darlington County's Materials Manager and Vehicle Maintenance Contractor will develop a plan to purchase replacement vehicles. Future RFP's should place priority on vehicle and equipment with the latest emission reduction	Not available	July 1, 2003	County wide

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
	standards.			
Community Awareness and Education	<p>Awareness and Education will include public speaking, distribution of educational materials and increase media alerts promoting clean air.</p> <p>The Darlington County School Superintendent will be contacted and requested to encourage the teachers in this county to participate in training classes provided by the SC DHEC Air Quality Bureau, and include the information in the school curriculum.</p>	Not Available	<p>March 30, 2003 Robbin Brock spoke at the Joint City/County meeting in Hartsville; Representatives from the town of Lamar and Society Hill, the cities of Hartsville and Darlington and the County of Darlington were present. Senator Gerald Molloy and Representative Jay Lucas were also in attendance. An ozone awareness presentation was done, followed by a lengthy discussion on the potential negative economic impact non-attainment could cause.</p> <p>April 14, 2003 A presentation was done for Sonoco Products on Ozone Awareness.</p> <p>May 14, 2003 Darlington County Ozone Steering Committee task the Emergency Services staff to produce a three-page brochure with Ozone information specific for Darlington County.</p>	County wide

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
			<p>August 1, 2003 The brochure was sent to the printers and is now available for distribution.</p> <p>December 3, 2003 The county ozone staff attended a training meeting at SC DHEC Air Quality Bureau. The new programs will be forwarded to the school district for consideration for the county school curriculum. First contact will be made around January 2, 2004.</p>	
Energy Conservation	Energy conservation plans will be developed that directs county departments to reduce the overall yearly energy usage by 5-10%. Our current data shows 5,932,976 kwh used, a 5% reduction will be 296,648 kwh.	Not available	July 1, 2003	County wide
Restrict or change the time of use of landscaping and lawn mowing equipment	County Department Heads will receive daily ozone alerts from the Ozone Action Coordinator, on days with high alerts these activities are being rescheduled.	Not available	May 1, 2003	County wide
Reduction in unnecessary use of on-road vehicle use and conservation of fuel.	County Department Heads will monitor vehicle and fuel usage on high alert days and decrease departmental use as much as possible.	Not available	May 1, 2003	County wide
Promote and encourage employees to eat in or carpool for meals during work hours.	Provide employees with facilities to eat in during working hours and flexible lunch hours to encourage carpooling for meals.	May 15, 2003 we conducted a multi-departmental survey to determine the effects of this measure. 83 out of 100 employees who were asked to take part in the survey	February 12, 2003	County wide

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
		returned the survey. We found that by providing facilities (exam. break rooms or kitchens) and flexible lunch hours 52% of the employees are eating meals in with an estimated savings of 9,900 vehicle miles traveled yearly. The average mileage for one employee was 3.14 miles per meal		

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Dillon County

According to the latest 8-hour ozone monitoring data, Dillon County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Dillon County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Dillon County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Air Quality Contact	One person will be identified as the Air Quality Contact. At a minimum, this contact will be responsible for ozone education/outreach and dissemination of ozone forecast. (Robert Abson)	Not available	March 2003	County wide
Support state-wide efforts	Dillon County will support the efforts of SC DHEC regarding state-wide emission reduction strategies.	Not available		County wide

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Florence County

Based on stakeholder consultation and taking into consideration resource and political constraints, the following control measures under consideration can be reasonably implemented. It is anticipated these measures under consideration will assist Florence County in achieving and/or maintaining the 8-hour ozone standard by 2007 and beyond.

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Support SCDHEC Statewide efforts to reduce ground-level ozone in Florence County.	Develop steering committee to support and participate in developing action items and emission reduction efforts in order to satisfy requirements of Early Action Compact.		On-going	
Designate an Ozone Action Coordinator	Designate a representative who will be responsible for coordination of county ozone programs.		3rd QTR, 2004	
Work with Owners/Operators of major vehicle fleets to reduce NOx and VOC emissions.	Identify owners/operators of major fleet vehicle pools in Florence Co. Catalog the number and type of fleet vehicles and fuel used.		4th QTR, 2003	
	Encourage the adoption of "no-idling" policies by owners/operators where feasible. Encourage fleet maintenance to ensure that vehicular emissions remain within manufacturer's standards.		1 st QTR, 2004	
	Encourage the replacement of older vehicles with vehicles that are more fuel-efficient and with lower emissions.		1 st QTR, 2004	
	Encourage fleet operators to constantly review routing and scheduling to maximize efficiency and reduce fuel consumption.		On-going	
	Encourage fleet operators to install vapor recovery equipment at their central fueling stations.		4 th QTR, 2004	
	Evaluate alternatives for fueling vehicles after 6:00 PM.		3 rd QTR, 2004	

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Florence County

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Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Reduce emissions from open burning.	Evaluate changes to county and municipal ordinances to minimize emissions from outdoor burning. Coordinate with state agencies to ensure state requirements are satisfied.		2nd QTR, 2004	
Work with electric and natural gas utilities to perform energy audits on all public facilities.	Determine current energy consumption patterns in public and institutional facilities and establish baseline data. Perform energy audits.		2nd QTR, 2004	
	Encourage governments in Florence County to educate their employees on day-to-day energy conservation measures.		1 st QTR, 2004	
	Set energy reduction goals and monitor progress toward satisfying targets.		3 rd QTR, 2004/ongoing	
Encourage golf courses utilizing gasoline powered carts and maintenance equipment to switch to electric or newer, more efficient gasoline powered carts and equipment.	Generate inventory of gasoline powered carts and equipment. Monitor and report replacement of existing carts and equipment with electric carts or newer, more fuel efficient and lower emission gasoline powered carts and equipment.		3 rd QTR, 2004	

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Florence County

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Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Evaluate potential for "Park and Ride" Program.	Coordinate with SC DOT and Pee Dee Regional Transportation Authority officials to evaluate options for "Park and Ride" and other mass transit opportunities.		4 th QTR, 2004	
Encourage car pooling to work in Florence County.	Encourage major employers in the county to implement car pooling. Evaluate "preferred parking" and other incentive programs.		4 th QTR, 2004	
Evaluate the potential for city and county to re-schedule heavy equipment operations on forecasted high ozone days.	Investigate impact of re-scheduling mowing, construction and other heavy equipment operations on forecasted high ozone alert days.		2 nd QTR, 2004	
Investigate the availability of "green power" and encourage local businesses and governments to adopt.	Evaluate availability of "green power" in Florence County. Work with local utilities to evaluate alternatives.		2nd QTR, 2004	
	Document consumption of "green power" in order to quantify emission reductions.		3 rd QTR, 2004	

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Florence County

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Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Reduce emissions from over-the-road vehicles that idle for extended periods at truck stops and rest areas.	Work with truck stop owners and SCDOT to investigate the feasibility of installing electrical hookups for over the road vehicles at truck stops and rest areas.		3 rd QTR, 2004	
Gasoline can trade-out program.	Conduct annual "Trade-it-In for Cleaner Air" day where citizens can trade-in-their old gasoline cans for the newer, "spill proof" variety. Work with landscaping and lawn maintenance firms in the county to encourage utilization of the larger "spill proof" fuel containers.		4th QTR, 2004	
Utilize Public access and commercial television stations as forums for disseminating information about the impacts of ground-level ozone.	Develop and disseminate a 30-second or 60-second "public service" spot for airing on local and regional television.		2nd QTR, 2004	
	Place "rolling messages" on the government access channel.		1 st QTR, 2004	
	Develop and air documentary explaining concerns from ground-level ozone and suggested actions and modifications to help reduction level.		2nd QTR, 2004	
	Work with local media (radio, television and newspaper) to post daily ozone forecasts as part of local weather reports.		2nd QTR, 2004	

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Florence County

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Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Make presentations to local civic clubs, businesses, and government councils and agencies regarding impacts of ground-level ozone.	Develop power point slide presentation which outlines issues surrounding ground-level ozone and Early Action Plan. and make presentations to various groups.		4 th QTR, 2003 & 1st QTR, 2004	
	Schedule presentations with the various groups identified within the City and County.		1st QTR, 2004	
Work with SCDHEC to obtain brochures and other educational materials for education to the community.	Distribute brochures and other educational materials to the various groups.		1st QTR, 2004	
Generate on-going coverage by local/regional newspapers, magazines, association letters, etc. regarding ground-level ozone issues.	Develop narrative about the issues surrounding ozone problem for distribution to local newspapers.		1st QTR, 2004	
	Develop narrative about the issues surrounding ozone problem for distribution to business in company newsletters.		1st QTR, 2004	

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Florence County

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Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Work with Florence County School Districts to educate teachers and students regarding ground-level ozone issues.	Distribute brochures and give presentations to students/teachers as part of educational process to inform students of issues surrounding ground-level ozone.		2nd QTR, 2004	

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MARLBORO COUNTY, SC

According to the latest 8-hour ozone monitoring data, Marlboro County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Marlboro County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Marlboro County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Air Quality Contact	One person, Gray Bostick, has been identified as the Air Quality Contact. At a minimum, Mr. Bostick will be responsible for ozone education/outreach and dissemination of ozone forecast.	Not available	March 2003	County wide
Support state-	Marlboro County will support the efforts of SC	Not available	Ongoing	County wide

wide efforts	DHEC regarding state-wide emission reduction strategies.			
Fleet management	Marlboro County will consider alternative fueled and hybrid vehicles in the replacement of county fleet vehicles when appropriate.	Not available	Fiscal Year 2003-2004	County wide
County Bid Proposal Process	Marlboro County will give preference to companies that use environmentally "friendly" equipment on county projects.	Not available	Fiscal Year 2003-2004	County wide
Education	Marlboro County will work with the local school district to encourage the use of the "Action for a Cleaner Tomorrow" curriculum	Not available	School Year 2003-2004	County wide
Corporate cooperation	Marlboro County will seek to create partnerships with local businesses and industries in an effort to increase awareness of air quality concerns.	Not available	Ongoing	County wide
Corporate sponsorships	Marlboro County will encourage local businesses and industries to provide financial support to those striving for improved air quality.	Not available	Ongoing	County wide

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Marion County

According to the latest 8-hour ozone monitoring data, Marion County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Marion County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Marion County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

Measure under consideration	Detailed description of measure	Current assessment of emission reductions	Proposed date for implementation	Geographic area and/or local government
Air Quality Contact	An Ozone Action Coordinator has been named. Douglas Page, Ozone Coordinator 843-423-8234	Not available	March 2003	County wide
Fleet Management	Future purchase of vehicles with highest emission standards	Not available	April 2005	County wide
Fuels	Use of alternative fuels whenever possible	Not available	April 2005	County-wide

Reduce VMT	Eliminate travel by county vehicle whenever possible	Not available	April 2005	County-wide
Re-fueling	“No-Topping Off” policy for county vehicles	Not available	April 2005	County-wide
Energy Consumption	Seek to reduce energy use in county buildings	Not available	April 2005	County-wide
Lawn Maintenance	Rescheduling of mowing times whenever possible	Not available	April 2005	County-wide
Idling	Implement policy reducing idling time for county vehicles	Not available	April 2005	County-wide
Education	Distribute ozone education brochures, periodic public awareness advertisements will be issued	Not available	April 2005	County-wide
Open burning	Code enforcement of illegal burning laws	Not available	April 2005	County-wide